



Rabbit Anti-YFV NS5 Monoclonal antibody, clone 3027 (DMAB-CS24139)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	YFV NS5
Target	YFV NS5
Immunogen	Recombinant fragment of Yellow Fever virus NS5 protein. (strain 17D vaccine)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	YFV
Clone	3027
Purification	Protein A
Conjugate	unconjugated
Applications	WB
Format	Liquid
Size	25 µl, 100 µl
Buffer	PBS
Preservative	None
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

BACKGROUND

Introduction

Yellow fever virus (YFV) is an RNA virus that belongs to the genus Flavivirus. Over 100 species comprise the genus Flavivirus, which includes other notable human pathogens, such as dengue virus (DENV), Japanese encephalitis virus (JEV), Zika virus (ZIKV), West Nile virus (WNV), Kyasanur Forest disease virus, and tick-borne encephalitis virus.

Mature YFV virion is an icosahedral particle about 40 nm in diameter. Like other flaviviruses, YFV contains a small glycoprotein-containing lipid envelope surrounding a nucleocapsid which encloses one viral RNA. The envelope of virus is inlaid with two virally encoded proteins: envelope (E) protein and membrane (M) protein. The E glycoprotein is the major component of the virion surface and is responsible for the receptor-mediated endocytic fusion and subsequent cell entry, as well as direct viral assembly & budding, and immunogenicity.

The viral genome is a single positive-stranded, infectious RNA molecule, about 11 kb in length. This 11-kb molecule is made up of 5'- and 3'-untranslated regions (UTRs), between which lie a single open reading frame (ORF) encoding three structural proteins (capsid [C], premembrane [PrM], and envelope [E]) and seven nonstructural (NS) proteins (NS1, NS2A, NS2B, NS3, NS4A, NS4B, and NS5).

Keywords

Yellow fever virus; YFV; YFV NS5; YFV NS5 Protein
